



ERNEST ORLANDO LAWRENCE
BERKELEY NATIONAL LABORATORY

**Environment, Health, & Safety
Training Program**

EHS 433 ~ Contamination Area Training - NTLF

Course Syllabus

Subject Category: Radiation Protection
Course Length: 1 hour
Delivery Mode: Class
Schedule: As needed
Location/Time: Varies

Course Prerequisite: EHS 400, 432
Medical Approval: No

Course Purpose: This course provides training commensurate with a job assignment that requires an employee to work in a radioactive material contamination area at the NTLF. This course is designed to inform employees of the proper work practices and requirements needed for work in a contamination area, and to enable them to work safely within such areas. This course is mandatory prior to commencing work in a contamination area at the NTLF under any Radiation Work Authorization 1034. Other radiation protection courses may also be required and will be specified in the RWA.

Course Objectives: EH&S 433 covers the following topics:

- Basic radiological fundamentals and radiation protection concepts
- Describes the differences between fixed, removable, and airborne contamination.
- Contamination Area, High Contamination Area, and Airborne Contamination Area will be defined.
- Describes sources of radioactive contamination.
- Describes the various controls used to minimize and control radioactive contamination, such as preventative methods, engineering controls, personnel protective measures, administrative controls and decontamination.
- Describes the proper actions to take in an emergency.
- Describes protective clothing requirements.
- Describes the requirements for entering, working in, and exiting a contamination area.
- Describes the methods used to perform personnel decontamination.

Course Instructional Materials:

- Overhead projector
- Course material hand-out

Instructors:

Mike Schoonover

Training Compliance Requirements: This course is designed to meet, in part, the requirements of 10CFR835 section 901 (b), which states that each individual shall demonstrate knowledge of radiation safety topics:

1. before being permitted unescorted access to radiological areas, and
2. before performing unescorted assignments as a radiological worker.

This course complements courses 400 and 432.

Course Hand-outs:

- Student handbook
- Copy of power point presentation

Participant Evaluation: Written evaluations regarding the effectiveness of the trainer, the training and the visual aids.

Written Exam: A written exam must be completed with a minimum score of 80%

Practical Exam: No

Retraining/Recertification: Every 2 years.

WEB Resource: see ><http://www.lbl.gov/ehs/html/training.htm><.